

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A heat-resistant glass fiber which has a composition consisting essentially of, by weight %, 56 to 58.5% of SiO₂, 12 to 17% of Al₂O₃, 16 to 27% of CaO, 1 to 9% of MgO, 0 to 1% of Na₂O and 0 to 1% of K₂O as the entirety of the fiber and containing neither B₂O₃ nor F₂, and which has a surface layer portion made of a silicic glass having an SiO₂ content of at least 90% by weight, wherein the fiber substantially retains its flexibility when heated for ten hours at 900°C.
2. (Original) The heat-resistant glass fiber of claim 1, wherein the surface layer portion made of a silicic glass having an SiO₂ content of at least 90% by weight has a thickness of 0.1 to 1.0 μm.
3. (Original) The heat-resistant glass fiber of claim 1, wherein a difference ΔT between a spinning temperature which is a melting temperature of a glass having a viscosity of 100 Pa·s and a liquidus temperature is at least 30°C.
4. (Original) A process for the production of the heat-resistant glass fiber recited in claim 1, which comprises treating the surface of a glass fiber which has a composition comprising, by weight %, 56 to 58.5% of SiO₂, 12 to 17% of Al₂O₃, 16 to 27% of CaO, 1 to 9% of MgO, 0 to 1% of Na₂O and 0 to 1% of K₂O and containing neither B₂O₃ nor F₂, with a mineral acid.
5. (Original) The process of claim 4, wherein the treatment is carried out by immersing the glass fiber in an aqueous solution containing, as the mineral acid, 1 to 10% by weight of at least one acid selected from HCl, H₂SO₄ or HNO₃ at a temperature of 0 to 90°C.

6. (Currently Amended) A heat-resistant glass fiber which has a surface layer portion at least 0.01 μm thick, made of silicic glass having an SiO_2 content of at least 90%, the balance of the glass fiber having a composition consisting ~~essentially of~~, by weight %, 56 to 58.5% of SiO_2 , 12 to 17% of Al_2O_3 , 16 to 27% of CaO , 1 to 9% of MgO , 0 to 1% of Na_2O and 0 to 1% of K_2O as the entirety of the fiber and containing neither B_2O_3 nor F_2 , wherein the fiber substantially retains its flexibility when heated for ten hours at 900°C.